

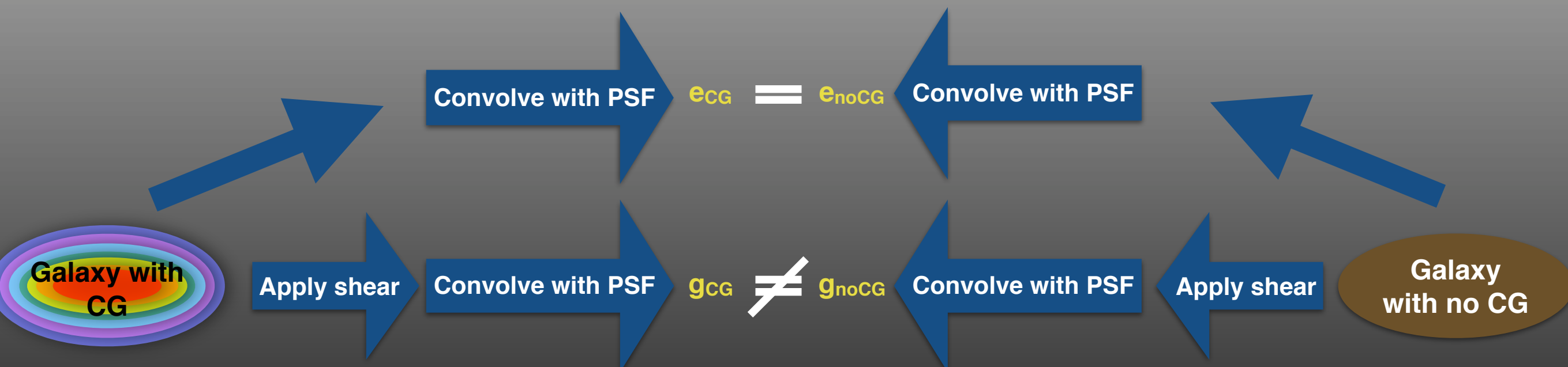


More colors more bias!

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- Study the impact of spatially varying spectral energy distributions, SEDs (so-called color gradients, CG) on shear estimators due to the wavelength dependence of PSF for LSST and Euclid.
- To eliminate other measurement bias and measure bias from CG only, compare results of shape estimation of galaxy with CG to that of equivalent galaxy with no CG



Assumptions made in the study

- We assumed that the effective PSF is known given the composite SED of the galaxy.
- Study is for a simple case of separable bulge and disk profiles with different SEDs. Real galaxies are more complicated than this.

Results : check out the poster !